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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/926,510	02/07/2002	Peter Ottersbach	215548US0XPCT	6845
22850 7	590 03/25/2004	EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			FUBARA, BLESSING M	
1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
	•		1615	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/926,510	OTTERSBACH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Blessing M. Fubara	1615			
The MAILING DATE of this communication	appears on the cover sheet wi	th the correspondence address			
Period for Reply		ONTH(S) EDOM			
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a re on. a reply within the statutory minimum of thirt period will apply and will expire SIX (6) MON statute, cause the application to become AB	epty be timely filed by (30) days will be considered timely. THS from the mailing date of this communication. SANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	05 January 2004.				
2a)⊠ This action is FINAL. 2b)□	<u> </u>				
3) Since this application is in condition for all					
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-7 and 12-16</u> is/are pending in t	he application.				
4a) Of the above claim(s) is/are with					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7 and 12-16</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.				
Application Papers					
9) The specification is objected to by the Exa	miner.				
10) ☐ The drawing(s) filed on is/are: a) ☐	accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to	o the drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co					
11) The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119	•				
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	reign priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority docur	nents have been received.	-			
2. Certified copies of the priority docur					
3. Copies of the certified copies of the	priority documents have been	received in this National Stage			
application from the International Bu	•				
* See the attached detailed Office action for a	a list of the certified copies not	received.			
Attachus antich					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) T Interview 5	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	8) Paper No(s	s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	B/08) 5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152)			

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DETAILED ACTION

Examiner acknowledges receipt of amendment to the specification and claims filed 01/05/04; IDS filed 11/20/03 and 01/06/04. Claims 1-7 and 12-16 are pending.

The IDS filed 11/20/03 has no references filed with the cover sheet. Applicants may resubmit any references intended for submission with the cover sheet.

Claim Rejections - 35 USC § 112

1. The rejection of claim 16 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is withdrawn because amendment to said claim overcomes the rejection.

Claim Rejections - 35 USC § 102

- 2. Claims 1, 3-5 and 12-16 remain rejected under 35 U.S.C. 102(b) as being anticipated by Pardini (EP 0 204 312).
- 3. Applicants argue that Pardini does not anticipate the claims because:
- a) the amines in Pardini are protonated
- b) while DMAM and DEAM are monomers having tertiary amino groups, the fact is that the amines of Pardini are protonated
- c) Pardini exclusively discloses antimicrobial polymers comprising protonated amines
- d) the invention is directed to antimicrobial polymers comprising monomers with tertiary amino groups and not ammonium salts of tertiary amino groups
- e) an essential step in Pardini is to treat the amino functionalized monomer with an acid; this step is not disclosed in the instant invention
- f) therefore, the process of the instant invention is "totally" different from Pardini

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- g) functionalized substances are chemically distinct from ammonium salts
- h) as shown in examples in the specification, amino groups that are not converted into ammonium groups possess antimicrobial properties
- i) Pardini reveals that protonated amine is essential for the antimicrobial properties of the polymers
- 4. Applicants' arguments filed 01/05/04 have been fully considered but they are not persuasive.

On count a), it is noted that the amines of Pardini are tertiary amines, which is also acknowledged by the applicants. The disclosure that the amines are protonated does not take away from the fact that Pardini's amines are tertiary amines (see Table 1 and claim 4 of Pardini). Tertiary amines have the ability of becoming protonated.

On count b), Examiner agrees with applicants that DMAM and DEAM are tertiary amino monomers and by the nature of tertiary amine, can be protonated and does not take away from the fact that these monomers have tertiary amine groups.

On count c), the antimicrobial polymers of Pardini are tertiary amine monomers that are protonated, the monomers have tertiary amino groups.

On count d), the monomers of Pardini are protonated tertiary amines and they are not ammonium salts of the tertiary amino groups.

On count e), the step of treating the amino functionalized monomer with acid is neither disclosed nor excluded from the steps of the instant invention; the instant process comprises

On count f), the process of the instant invention does not differ from the process of the prior art in the broadest interpretation of a broad claim.

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On count g), the protonated amine monomers are not ammonium salts of the tertiary amine monomers, if it were, the amine monomers would be ammonium salt of the amine monomers, and it is not immediately apparent how that would be.

On count h), the protonated amino monomers are not ammonium salts and the antimicrobial activity of the protonated amine monomers is not necessarily all due from the protonation of the tertiary nitrogen.

On count i), the instant claims do not exclude tertiary amino monomers that are protonated.

Claim Rejections - 35 USC § 103

5. Claims 6 and 7 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Pardini (EP 0 204 312).

Applicants' position regarding this rejection is a withdrawal of the rejection in light of the reasons given above. This position is not persuasive because, protonated amine monomer is not ammonium salt of the amine monomer. The instant claim does not exclude protonation of the tertiary amino monomer.

Double Patenting

Examiner thanks applicants for their willingness to address the issue under the judicially created doctrine of double patenting when an allowable subject matter is identified. All the same the rejection is maintained and the rejection is reiterated below:

Claims 1, 2, 5-7 and 12-15 remain rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3, 7-11 and 14-16 of U.S. Patent No. 5,967,714. Although the conflicting claims are not identical, they are not patentably distinct from each other because the issued patent treats surfaces/articles/substrates with anti-

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microbial composition that anticipates the composition of the instant invention. Tert-butylaminoethyl methacrylate anticipates the formula of instant claim 2. The microbial polymer prepared by the process of instant claim 1 is comprised in the articles of instant claims 13-15.

Claims 1, 2, 4, 5, 14 and 15 remain rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,096,800. Although the conflicting claims are not identical, they are not patentably distinct from each other because the teachings of the issued patent encompass the claimed invention

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blessing M. Fubara whose telephone number is (571) 242-0594. The examiner can normally be reached on 7 a.m. to 3:30 p.m. (Monday to Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Blessing Fubara Patent Examiner

Tech. Center 1600